



Empowered by Innovation **NEC**

NEC IP DECT

Ultimate communication devices for voice, text messaging and in-house mobility





Table of content

On-site Wireless telephony on your IP Network	3
Key Applications	6
10 reasons for Business Mobility IP DECT	7
Key features of Business Mobility handsets	8
Feature overview for Business Mobility IP DECT handsets	9
IP DECT handset C124	10
IP DECT handset G355	12
IP DECT handset G955	14
IP DECT handset I755	16
IP DECT M155 Messenger	18



UNIVERGE®360 is NEC's approach to unifying business communications. It places people at the centre of communications and delivers on an organization's needs by uniting infrastructure, communications and business.

On-site Wireless telephony on your IP Network

True mobility across your organization

In today's business environment you want to offer employees a flexible way of working, while increasing customer service. You want to extend the reach of your voice network but also save on branch office costs. You want to optimize the use of your converged network and offer feature transparency between the wired and wireless world. You want to extend VoIP to the wireless world without any compromise in voice quality, availability and security.

With NEC's Business Mobility IP DECT you can do all of that, and more

- *Improved Customer Satisfaction* – With IP DECT callers get quick access to your employees improving customers satisfaction rates
- *Business efficiency* – With the IP DECT mobility features, employees can always be reached and seamless handover guarantees conversations continue when on the move
- *Increased performance* – IP DECT offers powerful functionality such as corporate directory access, text messaging and presence on the phone; overall efficiency and productivity will increase
- *Cost savings* – IP DECT drastically reduces your monthly cellular costs by offering a mobile, flexible, easy to use wireless voice solution in the office environment
- *For any organization* – IP DECT is a scalable and secure communications solutions for single office environment, campus environment or even metropolitan environment

Business Mobility IP DECT delivers on-site wireless telephony in a unique solution that combines the benefits of IP technology with the superior quality and facilities of the well established DECT technology.





Add sophisticated DECT wireless voice solutions to your network

With Business Mobility IP DECT, a single converged network provides both fixed and wireless telephony. Your mobile voice network can easily integrate with applications as they are part of the same network infrastructure. Wireless telephony in a multi-site company or large campus environment is a matter of installing IP DECT Access Points at remote locations, with no need for additional remote equipment. These remote locations become an integral part of your centralized mobile voice communication infrastructure.

Your mobile workforce can profit from a range of handsets that provide basic voice communication up to very sophisticated functionality and work together with messaging systems, such as nurse call systems in hospitals.

IP DECT user experience

Business Mobility IP DECT ensures the best user experience:

- Crystal clear audio quality
- Handsets that deliver optimal mobility, flexibility and comfort of use
- Handsets with an appealing and ergonomic design that are easy to use
- Easy access to a central directory and employee presence information that enhances the productivity of your workforce
- High feature transparency so employees can use the same facilities while away from their desks
- Full mobility and freedom of movement with seamless handover between Access Points
- Roaming between networks allows you to use the handset on different (remote) locations
- Full security with the secure DECT air interface, uniquely identified handsets and voice encryption
- Easy deployment for service engineers and maintenance personal by simple plug and play installation and downloadable software in both Access Points and terminals
- A scalable solution (up to 750 APs in IP DECT system) for large campuses or organisations.

In addition, messaging and alarming functions offer your mobile workforce the optimum in messaging and personal security.

The IP DECT open architecture

To protect investment and to stay competitive, Business Mobility IP DECT is based upon open standards. It is the first DECT system based on the SIP standard providing compatibility to virtually any communication platform that supports this standard. IP DECT also follows the worldwide DECT GAP standard. This means that for now, and the foreseeable future, systems will support the basic functionality of standard DECT handsets. Finally, IP DECT also provides an open interface for text and alarm messaging which guarantees connectivity to a variety of specific messaging systems in the market.

Multi-site mobility

Business Mobility IP DECT provides wireless telephony in a multi-site business or campus environment, offering the perfect solution for organizations with a main office and different branch offices, even when they are geographically spread. You simply install IP DECT Access Points at your remote locations, forming one DECT cluster with the Access Points in the main location via the company's network infrastructure.

The load on the network can optionally be reduced by using G.729 compression to the remote location.





Key Applications

Corporate Directory and Presence status

Business Mobility IP DECT provides users access to the company's corporate directory. At all times the telephone numbers and names of the entire organization are at hand, and consistent with the information used at the operator desk. Users can also see the presence of the person they need. The functionality is provided on a number of DECT handsets, such as G and I-series. Corporate Directory can either be provided by a dedicated application or by the Unified Communication application UC for Business.

This provides the ultimate mobility experience: no need to search for personal contact information or consult the nearest PC screen, just browse to the right person in your DECT handset's central directory and simultaneously check the required person's presence status.

Text and Alarm messaging

Business Mobility IP DECT provides powerful text and alarm messaging capabilities. This is valuable for a wide variety of applications in different types of businesses. With messaging, staff can be alerted about incidents such as a fire, nurse calls or status of industrial processes. As such it can also replace separate paging systems. IP DECT messaging includes individual messages to terminals, broadcast messages to a group of terminals and confirmation messages by the user. Different priority levels allow staff to differentiate between messages in to prioritise the very urgent call.

Location Detection

Business Mobility IP DECT can also be used to locate DECT terminals. This can be essential if staff need immediate assistance from colleagues. By pushing the SOS button on the phone, the system locates the position of the phone and alerts staff to provide assistance.

10 reasons for Business Mobility IP DECT

1 **It's proven and reliable**

Business Mobility IP DECT builds on proven and mature technology

2 **It's scalable**

IP DECT is scalable for 1 to 256 Access Points, and even beyond

3 **It's affordable**

It is very attractively priced

4 **It's integrated**

It offers all the relevant features users expect from business telephones

5 **Easy deployment and management**

Encryption and security are standard. IP DECT also comes with powerful management tools and the handset software can be downloaded 'through the air'

6 **Rich choice of terminals**

For every user-profile a specific handset and a choice of features and applications

7 **Take handset to other locations**

With IP DECT the handset will subscribe automatically in other locations allowing users to stay reachable under the same number

8 **Makes Unified Communications a reality**

All IP DECT handsets share the same central directory which is always up-to-date. The directory even shows the presence of the required person

9 **Powerful messaging to alarm and alert staff**

Alarms and text messages will alert staff, helping them to respond immediately to emergencies

10 **Protects investment**

IP DECT uses open standards such as the open messaging interface, the SIP protocol, the GAP compatibility for the handsets and many more



At a Glance

- A simple, secure, feature-rich solution
- A handset for every type of user
- Handset C124 for basic voice communication
- Handset G355 for the demanding office user
- Handset G955, the powerful voice and messaging DECT phone for office users
- Handset I600 for use in industrial or demanding environments



Key features of Business Mobility handsets

All Business Mobility IP DECT handsets offer excellent mobile voice communication: crystal clear speech, loudspeaker and hands free support, seamless handover and roaming, high security with DECT authentication, and seamless integration with features on the PBX platform. All DECT handsets have an appealing design and are easy to use. The DECT standard does not interfere with other frequency bands.

Distinctive ring tones distinguish internal and external calls (or messages), and audible indicators inform the user about the status of the handset. Central directory

support is available on the G355, G955 and I755 handsets. Messaging features are available on the G955 and I755 handsets, to support alarming and messaging. The I755 handset is robust and dust and drip-water proof (IP54) and has additional personal security options such as an SOS-key and man-down detection with associated alarming. Most handsets can be equipped with a memory card to store local user data and the subscription data of the handset. M155 Messenger is ideal for healthcare and hospitality environment, both for messaging as well as calls.








Feature overview for Business Mobility IP DECT handsets²⁾

Key features¹⁾

Feature overview per type of DECT Handset:

Call handling features:

	IP DECT C124	IP DECT G355	IP DECT G955	IP DECT I755	IP DECT M155 messenger
					
• Auto answer	No	Yes	Yes	Yes	Yes
• Calling name display	Yes	Yes	Yes	Yes	Yes
• Calling Line (CLIP) display / digits	Yes / 12	Yes / 24	Yes / 24	Yes / 24	Yes
• Call logging / size	Yes / 10	Yes / 50	Yes / 50	Yes / 50	No
Headset / Bluetooth	Yes / No	Yes / No	Yes / Yes	Yes / Yes	No
Built-in vibrator	No	No	Yes	Yes	No
Charger rack	No	Yes	Yes	Yes	No
Corporate Directory	No	Yes	Yes	Yes	No
Display	b/w	Colour	Colour	Colour	b/w
Triple Frequency band	No	Yes	Yes	Yes	No, dual
IP Classification	IP20	IP20	IP20	IP54	IP20
Location detection	No	Yes (prepared)	Yes (prepared)	Yes (prepared)	Yes (prepared)
Loudspeaker	Yes	Yes	Yes	Yes	Yes
Man-down alarm	No	No	No	Yes	No
Memory card	No	Yes, optional	Yes, optional	Yes, optional	No
Messaging (LRMS)	No	No	Yes	Yes	Yes
Messaging broadcast	No	No	Yes	Yes	Yes
Multiple subscription DECT systems	No	Yes (8)	Yes (8)	Yes (8)	No
Personal Phone book	Yes	Yes	Yes	Yes	Yes
Number of contacts:	40	200	200	200	5
SOS-key / alarm	No	Yes	Yes	Yes	Yes

1) For details, see the datasheets for each type of handset.

2) Availability depends on local market situation and frequency band. Contact your local NEC dealer for more information



The compact business handset for mobile office users

The IP DECT handset C124 is a compact business handset for users who simply want to make and receive wireless calls while in the office. The C124 handset gives users improved mobility, accessibility, flexibility and comfort.

The IP DECT handset C124 provides mobile users all the basic telephone features required in a professional office environment:

- For optimal use and comfort the handset has been ergonomically designed
- Users have full control over their accessibility
- The illuminated graphic display allows the handset to be used in poorly lit environments
- The loudspeaker provides hands-free operation with excellent sound quality
- The handset is provided with standard rechargeable batteries
- Personal contacts can be stored in the personal phone book
- With advanced call logging features no more calls are lost
- Different call control options are available and features are seamlessly integrated with the PBX
- Mobile DECT handsets keep the communication costs low
- Complies with the DECT standards for high quality speech and security (DECT authentication)



The IP DECT handset C124 is intended to provide all basic voice features for mobile users in an office environment. The handset provides the user mobility, flexibility and accessibility; without compromising on comfort and ease of use.

IP DECT handset C124



At a Glance

- Increase accessibility
- Enjoy freedom and comfort of mobility
- Reduce communication costs
- High speech quality and security
- A simple, secure, wireless voice solution for office environments



Professional voice communications for mobile office users

The IP DECT handset G355 is a wireless office handset for use in professional environments, providing the mobile user the optimum in mobility, accessibility, flexibility and comfort.

The IP DECT handset G355 brings mobile communication to a higher level:

- An appealing design and intuitive user interface
- Colour display and icon-based menu for ease of use
- Scratch-protected user design
- Provides valuable information to the user, including central directory access, personal phone book and calendar entries
- Enhanced comfort and flexibility through hands free operation and use with headset
- Gives users full control over their accessibility
- Provides many call control features seamlessly integrated with the PBX
- DECT compliance for high quality speech and security
- Is easy to service and maintain



The DECT handset G355 satisfies advanced requirements for mobile voice communication in a business environment, providing mobility, flexibility and accessibility, without compromising on comfort and ease of use.

IP DECT handset G355



At a Glance

- Appealing design, easy and intuitive use
- Easier to access phone book contents
- Flexibility, comfort and mobility for the user
- Increased accessibility
- More control over calls
- Reduced maintenance and service costs
- A simple, secure, feature rich solution





Sophisticated voice and messaging for mobile office users

The DECT handset G955 is a sophisticated wireless handset for use in professional office environments providing the mobile user the optimum in mobility, accessibility, flexibility and comfort.

The DECT handset G955 brings mobile communication for DECT users to the highest level:

- An appealing design and intuitive user interface
- Colour display and icon based menu for ease of use
- Scratch-protected user design
- Provides valuable information to the user, reducing central directory access, personal phone book and calendar entries
- Enhanced comfort and flexibility by adding options such as a Bluetooth headset
- Gives users full control over their accessibility
- Provides many call control features seamlessly integrated with the PBX
- DECT compliance for high quality speech and security
- Provides an excellent communications device for organizations that rely on messaging or alarm information sent to employees, such as in hospitals and hotel environments
- Is easy to service and maintain



The DECT handset G955 satisfies the most advanced requirements for voice and message communications in a business environment providing mobility, flexibility and accessibility, without compromising on comfort and ease of use.

IP DECT handset G955



At a Glance

- Appealing design, easy to use handset
- Increased accessibility
- Flexibility, comfort and mobility
- Additional freedom with Bluetooth headset
- High-end mobile communications device for voice and messaging
- Reduced communication and maintenance costs
- A simple, secure, feature rich solution



Robust handset for voice and messaging in demanding environments

The IP DECT handset I755 is designed for use in potentially demanding environments, such as healthcare, manufacturing, retail and warehousing.

The I755 brings mobile communication for the professional IP DECT users to a higher level:

- Provides an excellent communication device with text messaging and alarming information, from applications such as alarming systems and nurse call systems
- Provides personal security for the user, with the dedicated SOS-alarm key and man-down function (detection of non-vertical position)
- An appealing but also robust design for use in industrial environments and other demanding environments
- Provides valuable information to the user, including central directory access, personal phone book and calendar entries
- Colour display and icon based menu for ease of use
- Enhanced comfort and flexibility by adding options such as a Bluetooth headset
- Dust and drip water proof (IP54 classification)
- Gives the user full control over their accessibility
- Provides many different call control options and features seamlessly integrated with the PBX
- Complies with the IP DECT standards for high quality speech and security (DECT authentication)
- Is easy to maintain



The IP DECT handset I755 fulfils requirements for voice and message communication in a professional and industrial environment. The handset offers mobility, flexibility and accessibility, without compromising on comfort and ease of use. The IP DECT handset I755 provides additional protection to users with the man-down function and SOS alarm key.

IP DECT handset I755



At a Glance

- Care-free use in demanding environments
- Appealing design, easy and intuitive use
- Improve personal security
- Inform users via messaging
- Flexibility, comfort and mobility
- Increased accessibility
- High quality speech and security
- Reduced communication and maintenance costs
- A simple, secure, feature rich solution





The ultimate message device for healthcare and hospitality environments

The M155 IP DECT Messenger is a sophisticated wireless messaging device for use in professional healthcare and hospitality environments. The small device is easy to carry and provides the mobile user the optimum in mobility, accessibility, flexibility and comfort. Besides a message device the M155 also offers the mobile user speakerphone communication and it acts as a personal alarm device.

The M155 IP DECT Messenger brings mobile messaging and speakerphone communication for DECT users to the highest level:

- An appealing design
- Three-line display
- Easy to carry (on wrist or as necklace)
- Easy to use
- Handsfree calls
- Gives users full control over their accessibility
- Provides various call control options and seamlessly integrates with the PBX and (messaging) applications
- Complies with the DECT standards for high quality speech and security (DECT authentication)
- Provides an excellent communications device for organizations that rely on messaging or alarm information sent to employees, such as in hospitals and hotel environments
- Is easy to service and maintain



Integrated with applications in healthcare and hospitality environments the M155 IP DECT Messenger satisfies the requirements for message communications in an environment where bringing messages to the mobile user is of imminent importance. Furthermore the M155 DECT Messenger can be used for voice communication and it serves as a personal alarm device.

IP DECT M155 Messenger



At a Glance

- Appealing design, easy to use device
- Increase accessibility
- Communications device for messaging and voice
- Flexibility, comfort and mobility
- Personal alarm device
- Reduce communication and maintenance costs
- A simple, small and secure solution



For further information please contact your local NEC representative or:

NEC Infrontia, Innovation House, Mere Way, Ruddington Fields Business Park, Ruddington, Nottingham NG11 6JS
www.neci.co.uk - Tel: 0115 969 5700

Empowered by Innovation **NEC**



This publication provides outline information only which (unless specifically agreed by NEC Infrontia in writing) may not be used, applied or reproduced for any purpose or form part of any order or contract or be regarded as a representation relating to the products or services concerned. NEC Infrontia reserves the right to alter without notice the specification, design, price or conditions of supply of any product or service. E&OE.